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Filed : **Herewith**

A1

indicating that the oxidase and its product, the reactive oxygen metabolites (ROMs), have an important bactericidal function.

Please replace **Paragraph [0012]** with the following rewritten paragraph:

A2

[0012] ~~Topically administered salves, balms and other such medicaments~~ are well known in the art. The application of mud or plant extracts such as aloe vera are just two examples of such medicaments. For a discussion of aloe vera, see U.S. Patent No. 4,857,328, which is hereby incorporated by reference. The use of two different histamine derivatives as topically administered skin medicaments has also been discussed previously. The first may be found in a series of U.S. Patents to Jack et al., which disclose the use of a pharmaceutical composition of water, water soluble vinyl polymer gel, an amine alcohol dispersant and 1H-imidazole-4-ethanamine phosphate to treat certain skin disorders. See U.S. Patent Nos. 5,294,440; 5,679,337; and 5,716,610. The second is found in U.S. Patent No. 5,792,784, which discloses a pseudo-dipeptide product obtained by coupling histamine or a methyl-substituted histamine and an amino acid.

Please replace **Paragraph [0019]** with the following rewritten paragraph:

A3

[0019] The compositions of the present invention can be found in a variety of cosmetic illusions. For example, the composition can be a lipstick, a shampoo, a carrier, a mouthwash, or a transdermal patch.

Please replace **Paragraph [0020]** with the following rewritten paragraph:

A4

[0020] The present invention relates to compositions and methods for the reduction of reactive oxygen mediated damage in the treatment of skin and mucosal membrane disorders caused by or aggravated by reactive oxygen metabolites (ROMs). The compositions and methods of the present invention are useful, for example, for treating certain disorders caused by various disease etiologies, and lesions of the skins, such as burns.

Please replace **Paragraph [0030]** with the following rewritten paragraph:

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[0030] The present invention contemplates using various histamine or histamine-related compounds to achieve a beneficial reduction in the concentration of enzymatically produced ROM production and release. The

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AS

Please replace **Paragraph [0048]** with the following rewritten paragraph:

AG

Please replace **Paragraph [0066]** with the following rewritten paragraph:

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Please replace **Paragraph [0083]** with the following rewritten paragraph:

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~~[0083]~~ A female subject suffering from herpes genitalis is treated with the ROM inhibitory compound histamine diphosphate in a concentration of 0.07% by weight of formulation in the form of a foam and a cream. Using an applicator, the foam is injected into the vaginal space to treat herpetic lesions therein. The cream is applied topically to external lesions. The cream and foam are applied three times a day for a period of five days. There are no untoward reactions and the treatment reduces the healing time of the ruptured herpetic vesicles.

Please replace **Paragraph [0085]** with the following rewritten paragraph:

A9
~~[0085]~~ A subject suffering from pharyngotonsillitis, a herpetic infection of the pharyngeal region is treated with a mouthwash containing the ROM inhibitory compound NADPH oxidase inhibitor diphenyleneiodonium in a concentration of 0.05% by weight of formulation. The treatment consists of five mouthwash applications per day for a period of seven days. The administration of diphenyleneiodonium is effective in treating the pharyngotonsillitis of the subject.

Please replace **Paragraph [0105]** with the following rewritten paragraph:

A10
~~[0105]~~ The compositions of the present invention are administered topically to a subject presenting thermal burn injuries. A water-based gel preparation containing of 0.007% by weight of the formulation of serotonin is administered to the subject's burn injuries. The treatment consists of topical application of the gel to the burn site every 10 minutes for the first hour, then every 30 minutes for the next three hours. Topical applications thereafter are applied as needed by the subject in response to pain. Application of the gel reduces the discomfort of the subject and promotes healing of the burn injuries.

Please replace **Paragraph [0106]** with the following rewritten paragraph:

A11
~~[0106]~~ The compositions of the present invention are administered topically to a subject presenting chemical burn injuries. A water-based gel preparation containing of 0.007% by weight of the formulation of histamine dihydrochloride is administered to the subject's burn injuries. The treatment

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consists of topical application of the gel to the burn site every 10 minutes for the first hour, then every 30 minutes for the next three hours. Topical applications thereafter are applied as needed by the subject in response to pain. Application of the gel reduces the discomfort of the subject and promotes healing of the burn injuries.

Please replace **Paragraph [0110]** with the following rewritten paragraph:

A12

[0110] A subject having undergone the procedure of a chemical peel is treated with a solution containing 0.008% by weight of histamine dihydrochloride to ease the tissue damage caused by the procedure and to promote healing of the treated skin. The solution is applied by soaking the treated area five times daily. The rate of healing is increased in those area treated with the solution.

Please replace **Paragraph [0117]** with the following rewritten paragraph:

A13

[0117] Because gum disease is usually painless, however, it often goes undetected. In the more advanced stages of gum disease, called periodontitis, the gums and bone that support the teeth can become seriously damaged. The teeth can become loose, fall out or have to be removed by a dentist. Symptoms of periodontal disease include: gums that bleed when the teeth are brushed; red, swollen or tender gums; gums that have pulled away from the teeth; bad breath that doesn't go away; pus between the teeth and gums; loose teeth; a change in the way the teeth fit together when biting; or a change in the fit of partial dentures.

IN THE CLAIMS

Kindly cancel claims 1-25.

Please add the following claims:

26. (New) A method for making a cosmetic composition for topically delivering a compound that inhibits the production and release of enzymatically produced ROMs comprising:

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providing a cosmetically acceptable carrier and a compound selected from the group consisting of histamine, histamine dihydrochloride, histamine diphosphate, other histamine salts, esters, prodrugs, histamine-receptor agonists, serotonin, and 5HT

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agonists in a concentration effective to treat ROM mediated damage to the skin caused by a disorder of the skin selected from the group consisting of herpes labialis, herpes genitalis, herpes zoster, varicella zoster, bacterial infections, chemotherapy-induced mucositis, radiotherapy-induced mucositis, photodermatitis, thermal burns, cosmetic surgery and periodontal disease; and

forming a composition containing the cosmetically carrier and said compound that inhibits the production and release of enzymatically produced ROMs.

27. (New) The method of Claim 26, wherein said compound is a compound that promotes the release of endogenous histamine stores.

28. (New) The method of Claim 27, wherein said endogenous histamine releasing compound is selected from a group consisting of IL-3, retinoic acid, 9-cis-retinoic acid, all-trans-retinoic acid, and allergens.

29. (New) The method of Claim 26, wherein said composition is a lipstick.

30. (New) The method of Claim 26, wherein said composition is a shampoo.

31. (New) The method of Claim 26, wherein said cosmetically acceptable carrier is a spray.

32. (New) The method of Claim 26, wherein said cosmetically acceptable carrier is a mouthwash.

33. (New) The method of Claim 26, wherein said cosmetically acceptable carrier is a transdermal patch.

34. (New) A cosmetic composition comprising an effective dose of a compound that inhibits the enzymatic production or release of ROMs in a cosmetically acceptable carrier adapted for topical delivery, wherein said carrier is selected from the group consisting of a sunscreen, a toothpaste, a soap, a wound dressing, a spray, a mouthwash, and a transdermal patch.

35. (New) The composition of Claim 34, wherein said compound is selected from the group consisting of histamine, histamine dihydrochloride, histamine diphosphate, other histamine salts, esters, prodrugs, H₂ receptor agonists, serotonin, and 5HT agonists.

36. (New) The composition of Claim 34, wherein said compound is a compound that promotes the release of endogenous histamine stores.

37. (New) The composition of Claim 36, wherein said compound that promotes the release of endogenous histamine stores is selected from the group consisting of IL-3, retinoic acid, 9-cis-retinoic acid, all-trans-retinoic acid, and allergens.